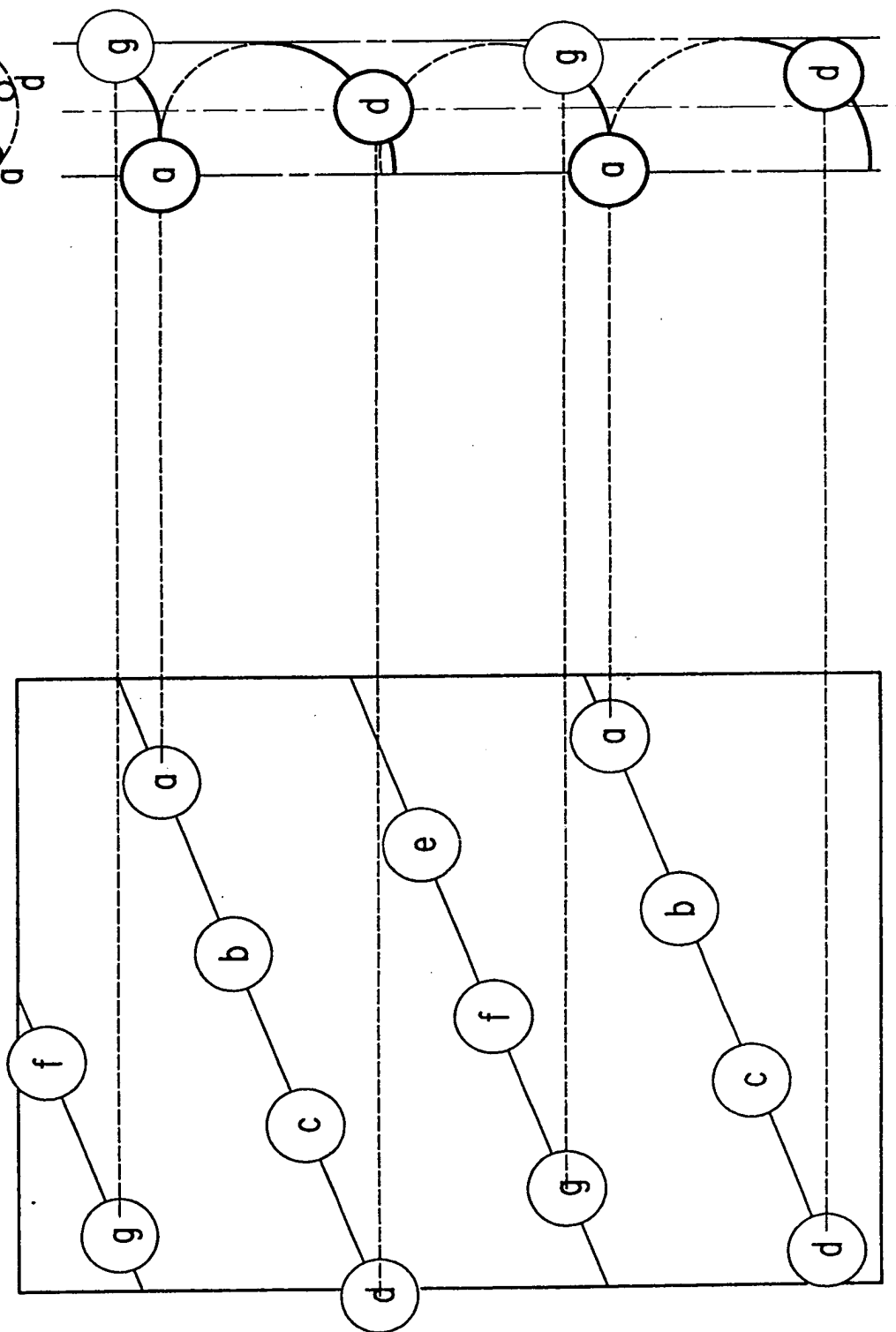


FIG. 1



FOOTNOTES

FIG. 2A

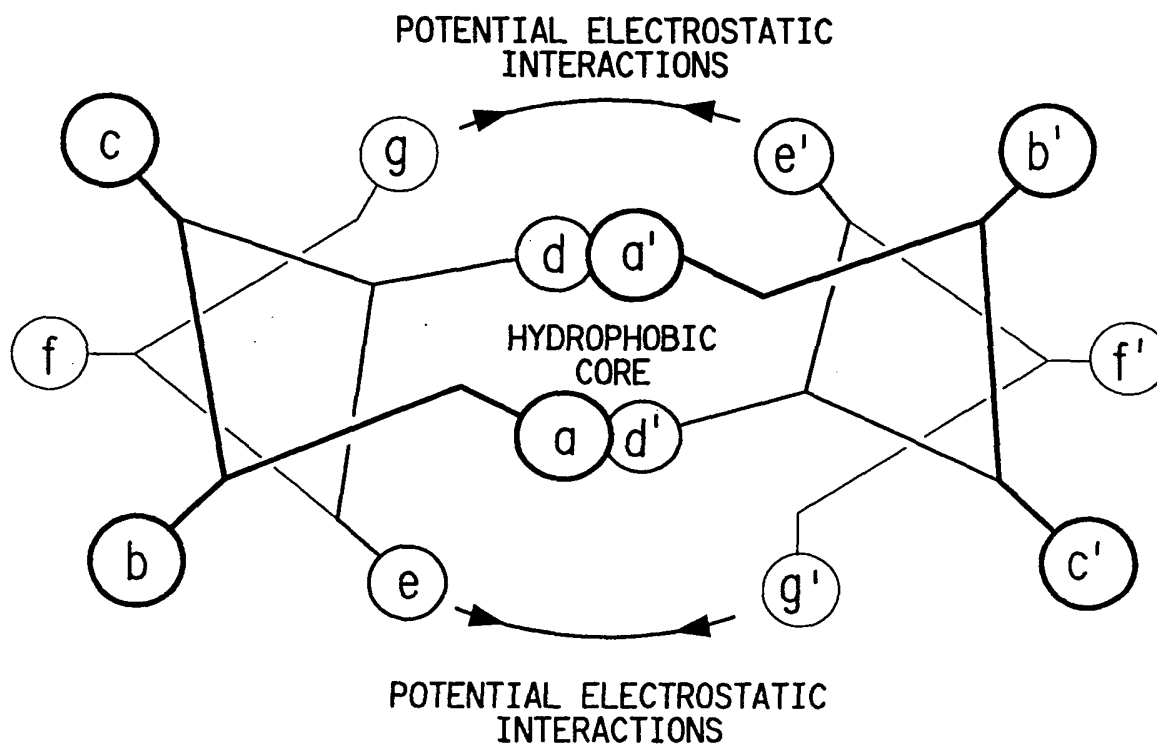


FIG. 2B

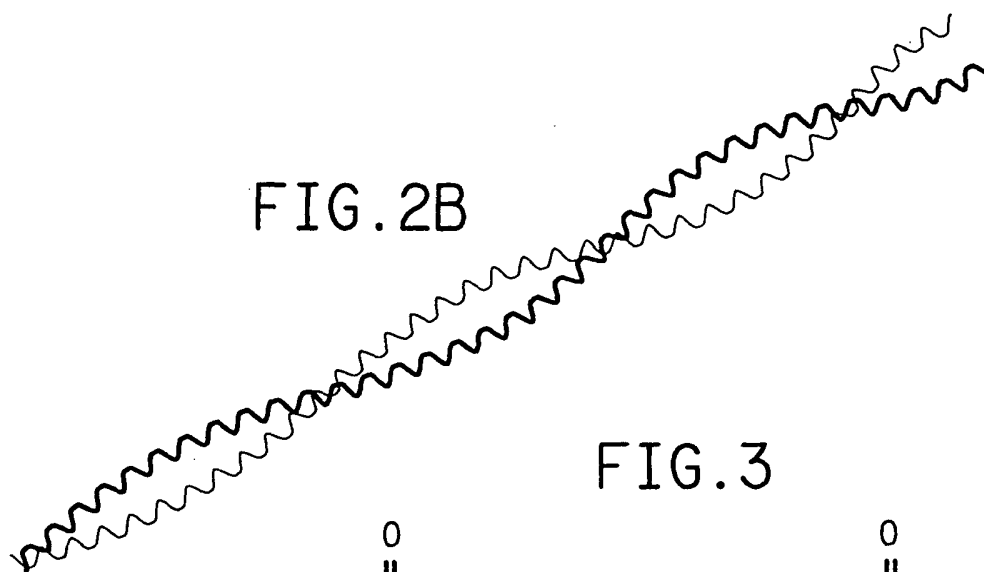
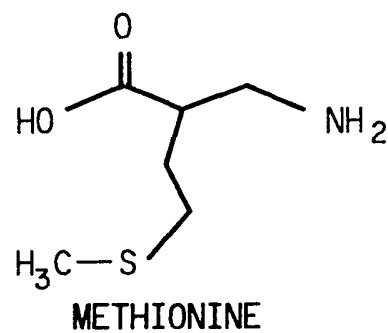
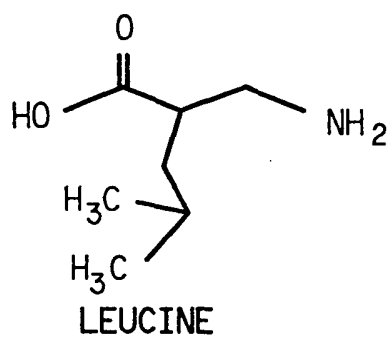


FIG. 3



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FIG. 4a

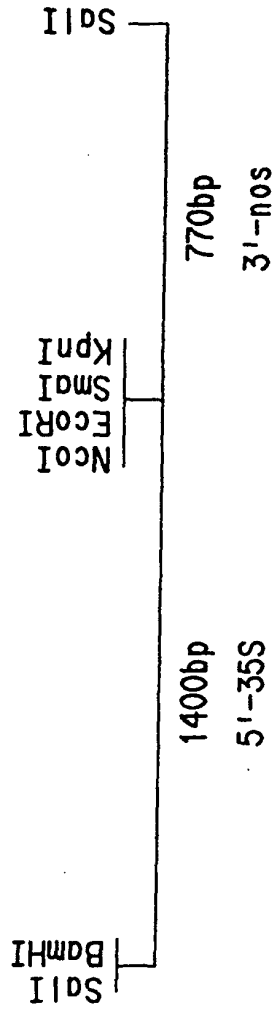


FIG. 4b

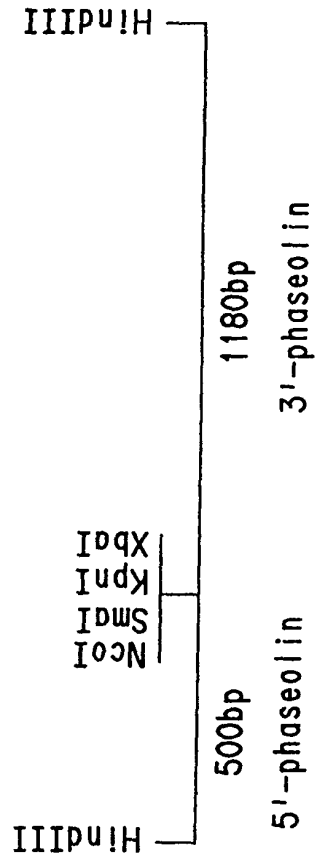
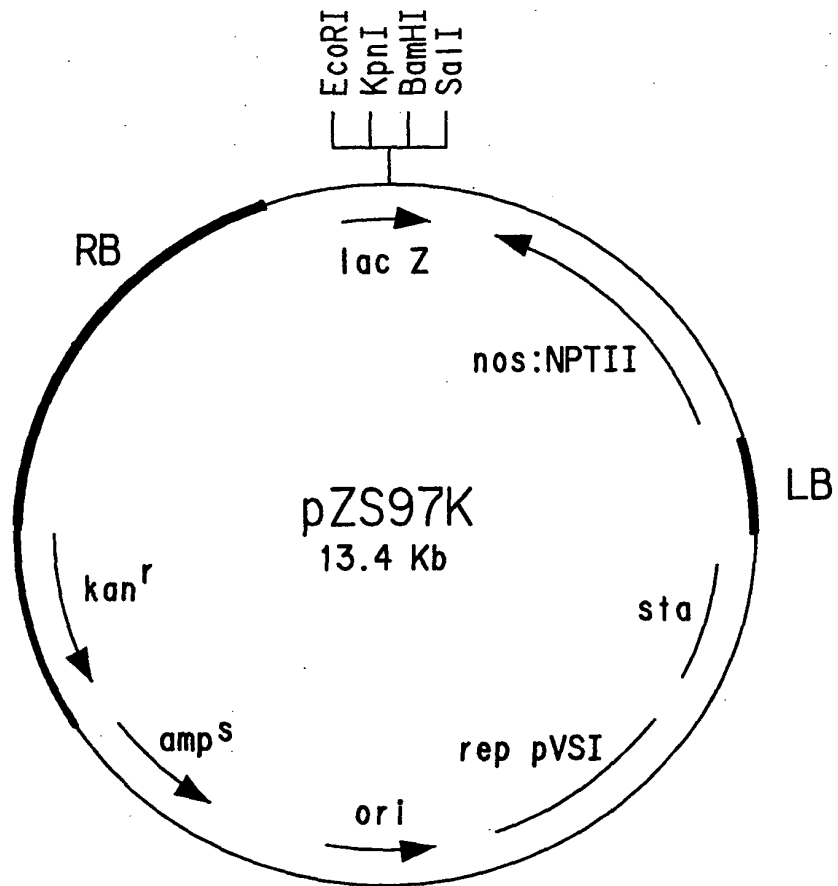


FIG.5



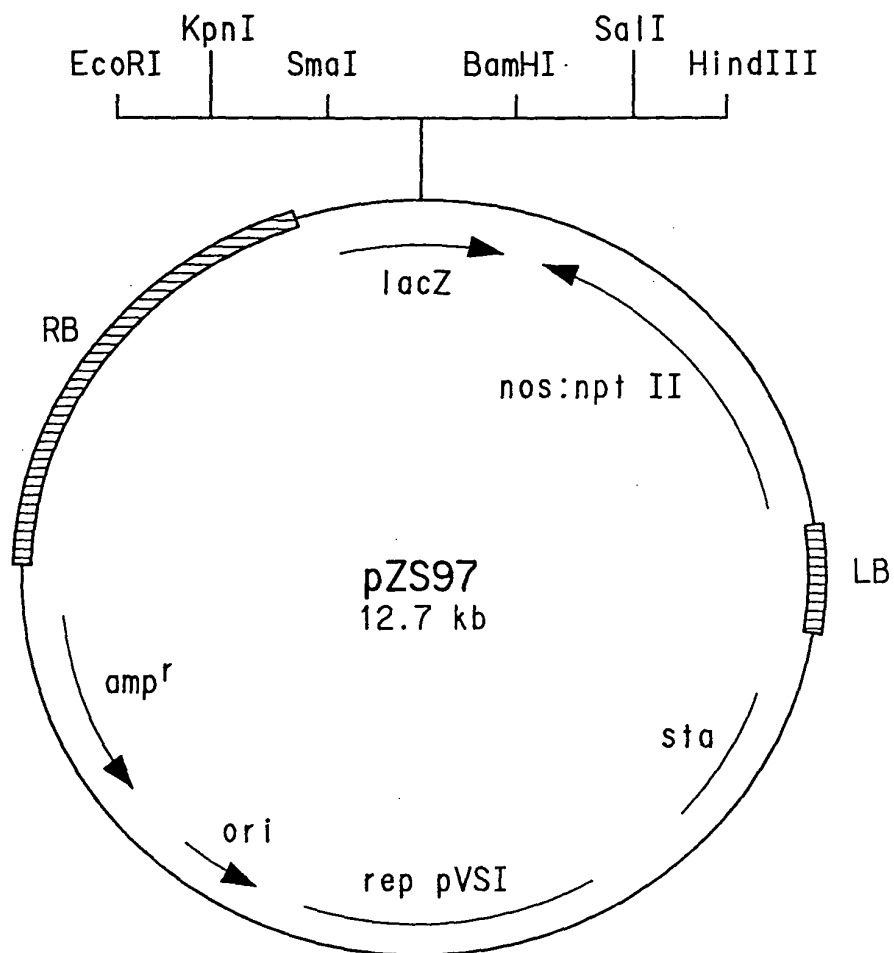


FIG.6

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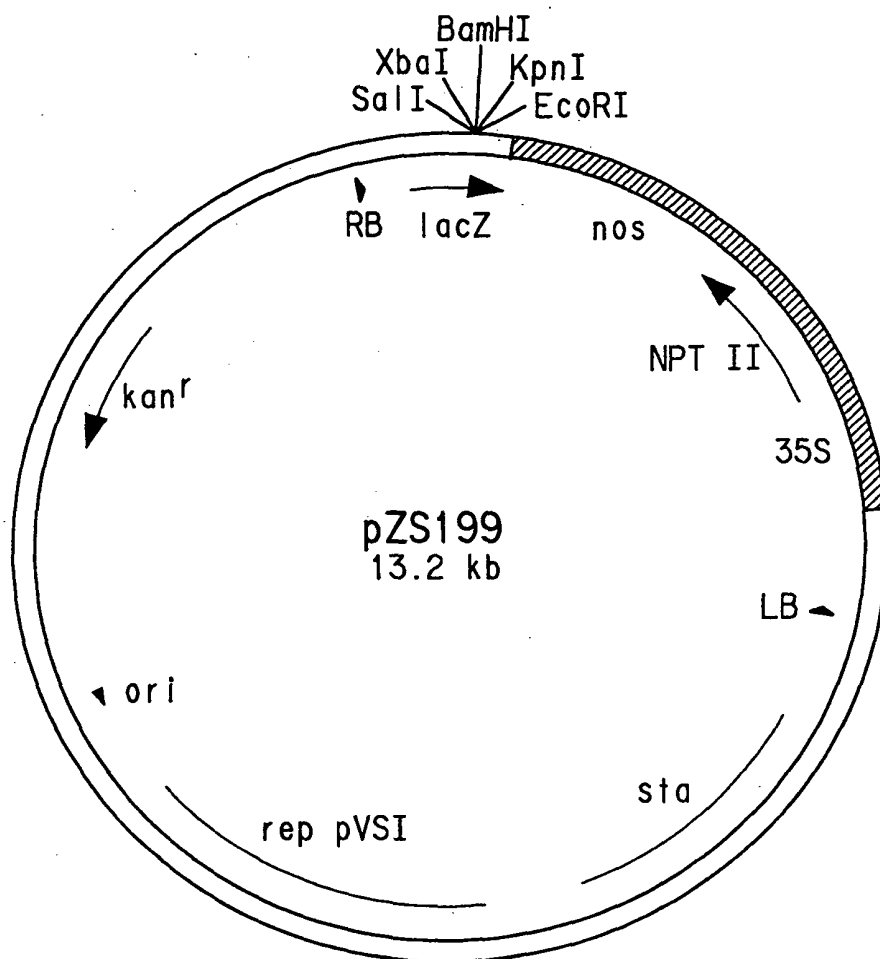


FIG.7A

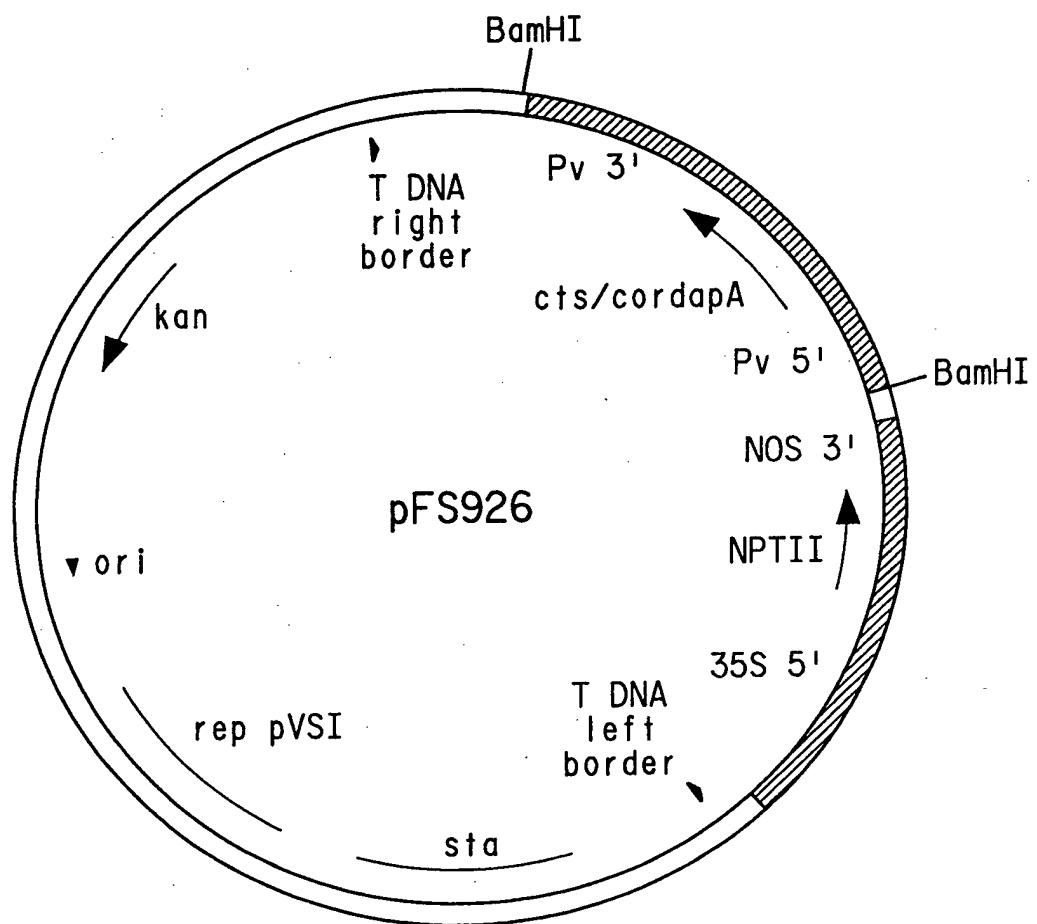


FIG. 7B

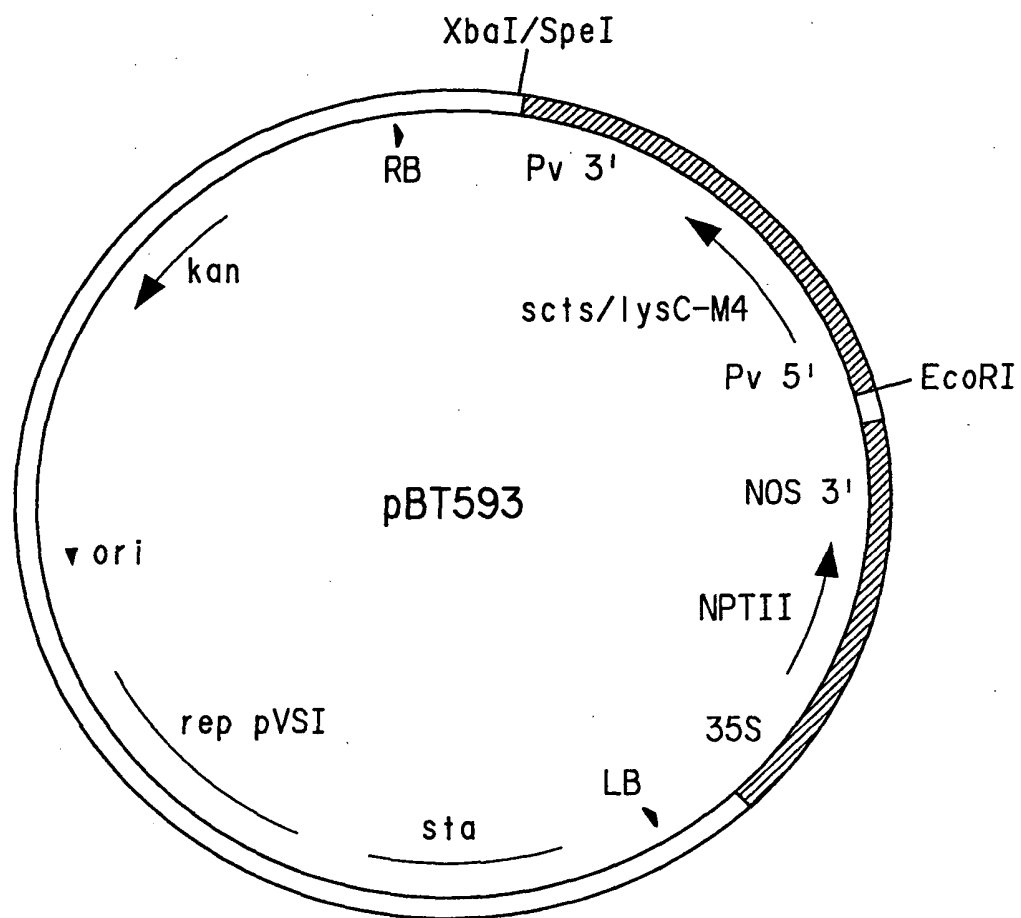


FIG. 7C

10023066-121701



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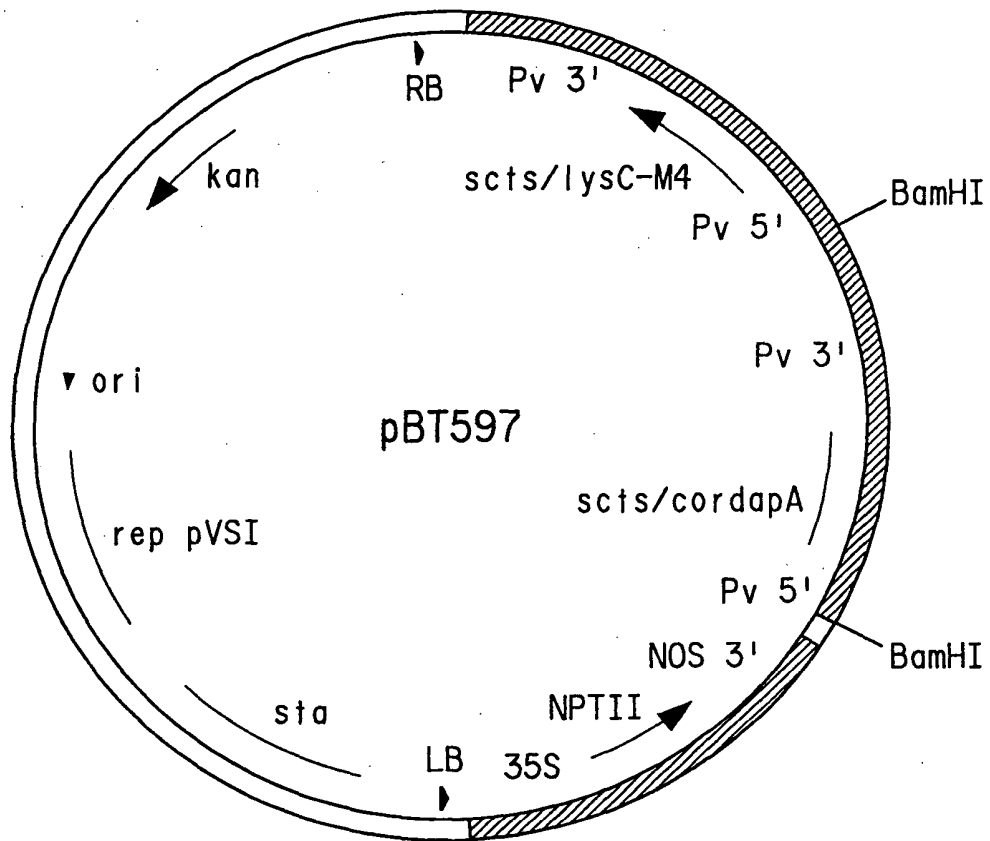


FIG. 7D

10023066-121701

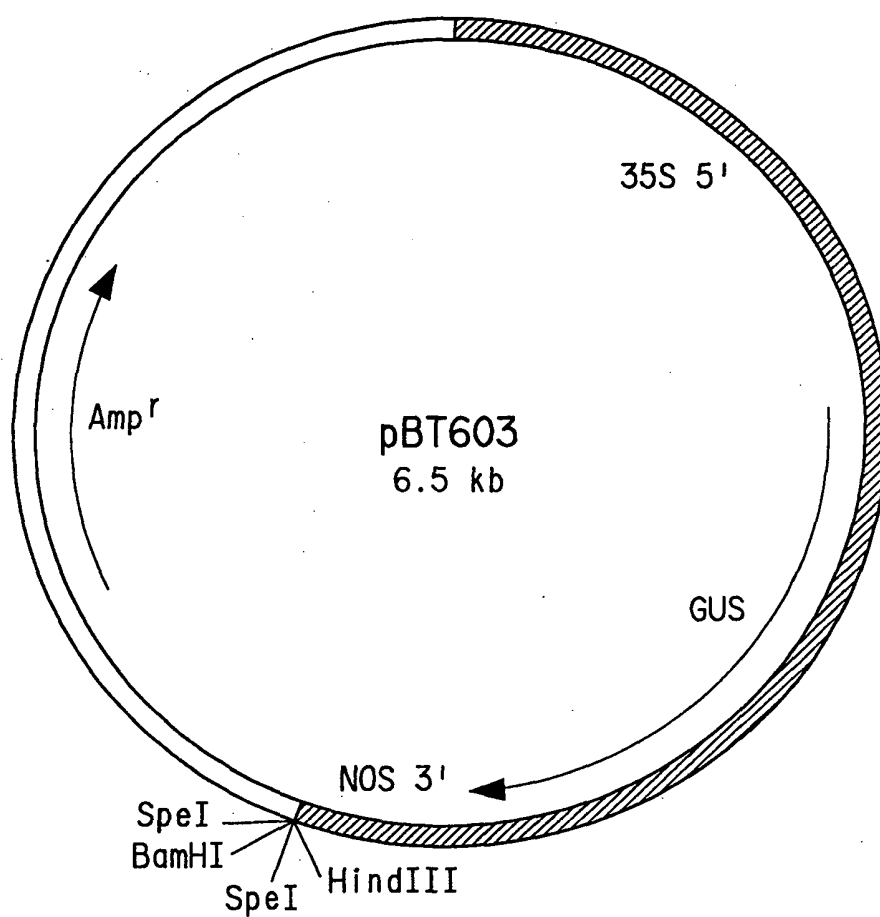


FIG. 8A

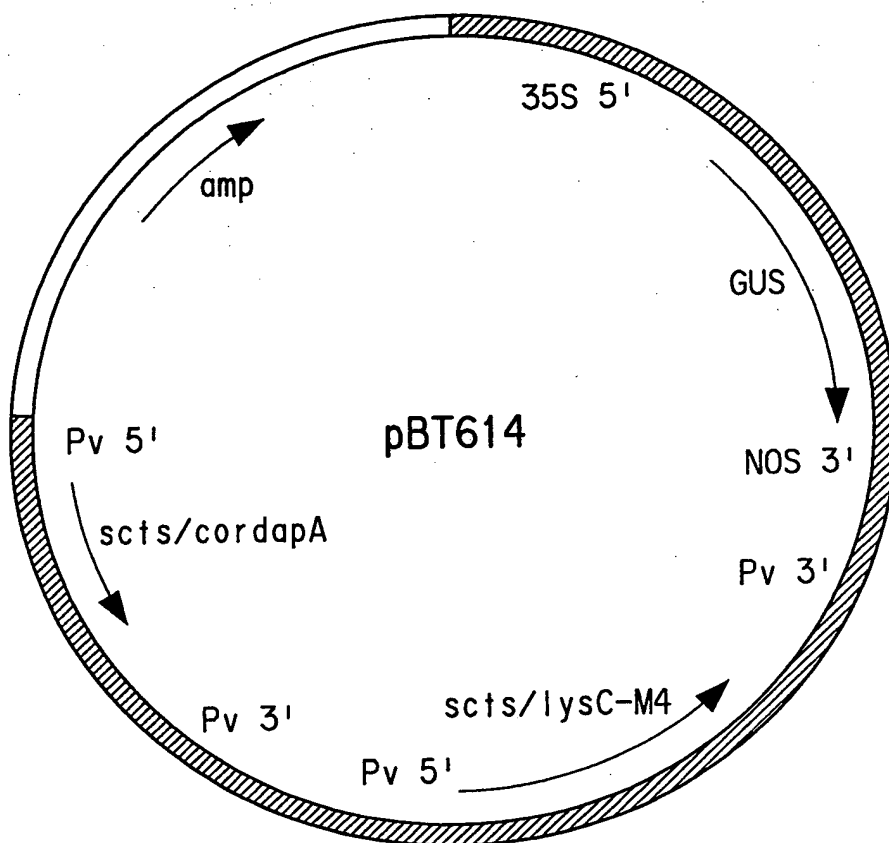


FIG.8B

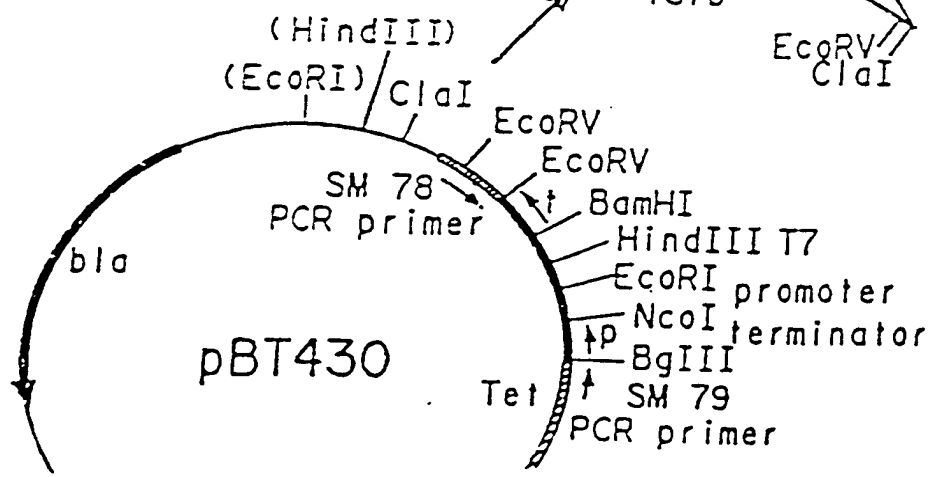
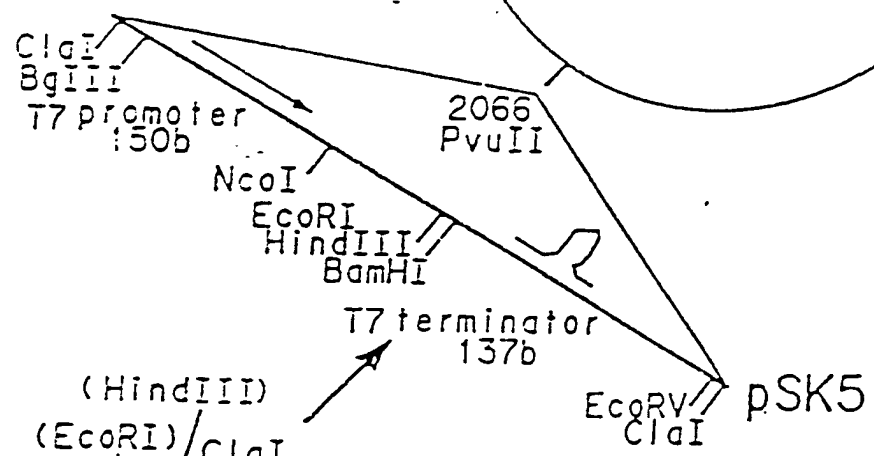
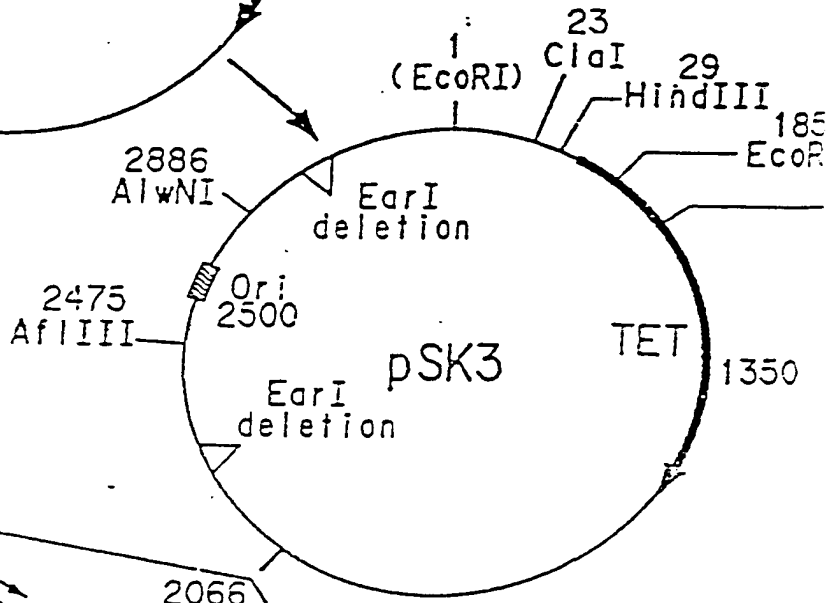
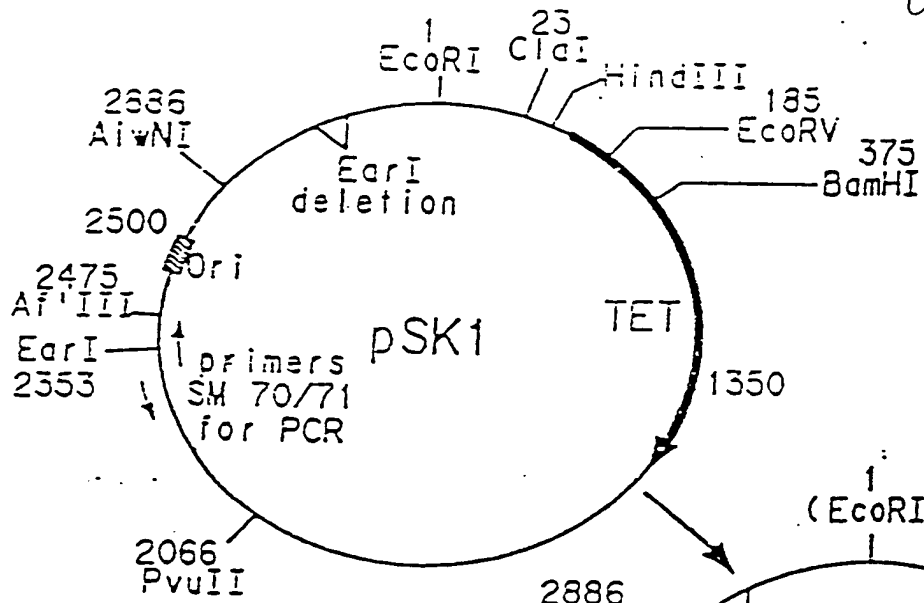
# FIG.9

SEQ ID NO:104  
*S. cerevisiae* SDH  
 19 KKSGVLILGAGRVXRPAADFLASVRTISSQQWYKTYFGADSEKTDVHVI 68  
 . . . . .  
 1 MGKNVLLGSGFVAQPVIDTLAA . . . . . NDDINVT 30  
 69 VASLYLKDAKETVEGISDVAVRLDVSDSESLKYVSQVDVWLSLLPASC 118  
 ||: | : | : . . . . .  
 31 VACRTLANA.QALAKPSGSKAISLDVTDSDSALDKVLADNDVVISLIPYTF 79  
 119 HA 120  
 |:  
 80 HP 81

SEQ ID NO:105  
*S. cerevisiae* SDH  
 1 KHTATLLEFGDIKNGQTTAMAKTVGIPAAIGALLIEDKIKTRGVLRPL 50  
 . . . . .  
 374 TRTSTLVDYGV...GGYSSMAATVGYPVAIATKFVLDGTIKGPGLLAPY 420  
 51 EAEVYLPALDIL.QAYGIKLMKAE 74  
 . . . . .  
 421 SPEINDPIMKELDKYGIYLKEKTVA 446

Fig 10

~~FIG. 7~~



10023066.121701

~~FIG. 8~~

NCOI                      EARI                      ASP718ECORI  
CATGAGGAGAGATGAAGGC GATGGAGAGAGATGAAGCGIGATAGTACCG  
 CTCCCTTCTACT TCCGCTA CCTTCTC TTGACTTCGGCACTATCCATGGCTTAA  
 M E E K M K A M E E K M K A

↓  
 LIGATE OLIGOS

GATGGAGGAGAAGATGAAGGC  
 CCTCCCTTCTACTTCCGCTA  
 M E E K M K A

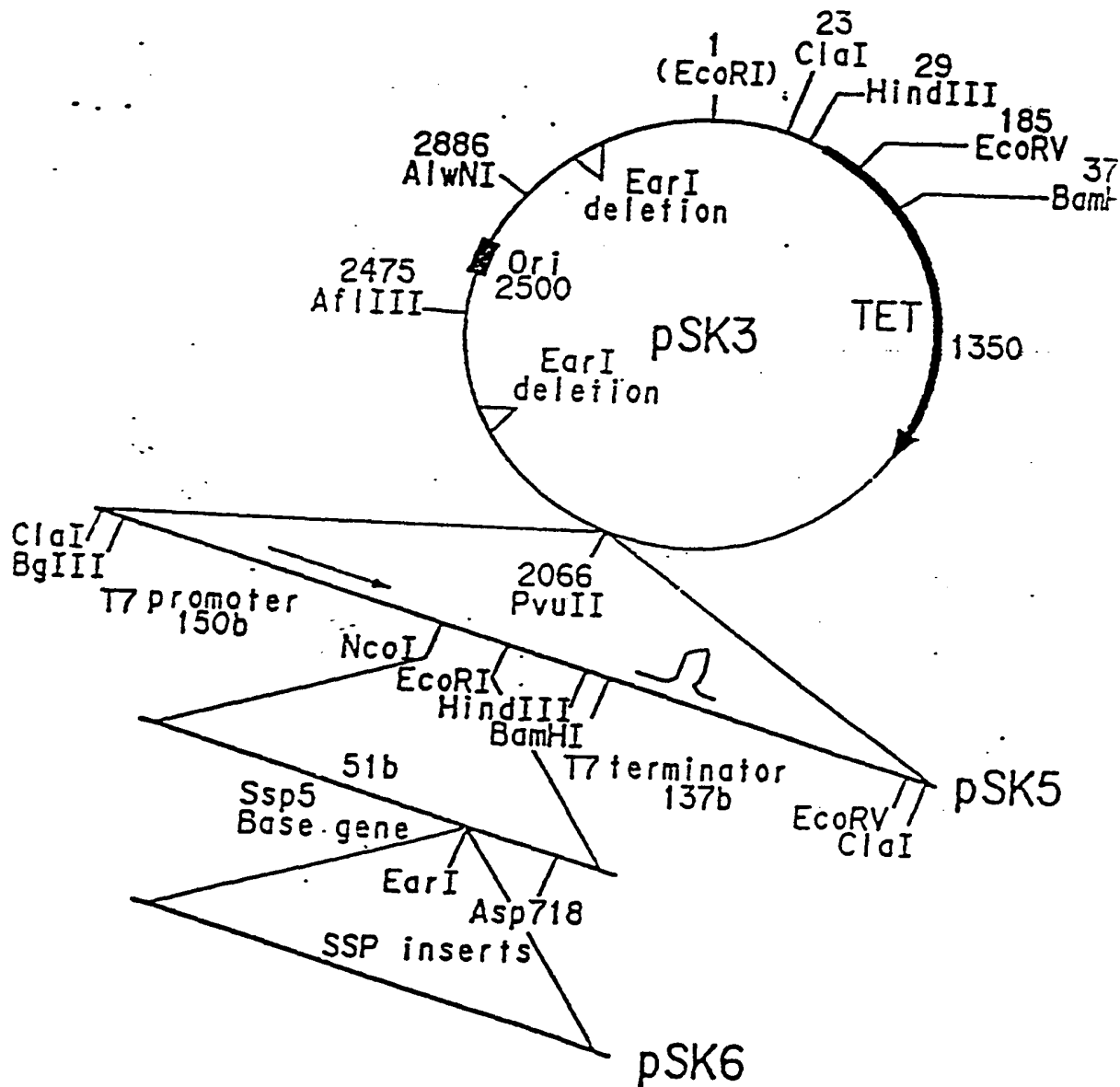
↓  
 LIGATE TO EARI CUT VECTOR

NCOI                      EARI                      ASP718ECORI  
CATGAGGAGAGATGAAGGC GATGGAGGAGAAGATGAAGCGIGATAGTACCG  
 CTCCCTTCTACT TCCGCTA CCTCCCTTCTACTTCCGCTA CCTTCTC TTGACTTCGGCACTATCCATGGCTTAA  
 M E E K M K A M E E K M K A M E E K M K A

FIG. 12

FIG. ~~11~~

1002306-1201




~~SECRET~~

# OLIGONUCLEOTIDE INSERTS

GCTGGAGAAAGATGAGGCTATGGAGGAGAGATGAAATGGCTTGAGGAAAGATGAAGAA  
 CCTCTTTTCTACTTCCGATACCTCCTGTTCTACTTTACCGAACTCCTTTCTACTTCTTCTGA  
 L E E K M K A M E E K M K W L E E K M K K

↓ OLIGOS LIGATED INTO EARI CUT BASE GENE

NCOI  CATGGAGGAGAGATGAAAA GCTGGAAGAAAAAGATGAAGGCTATGGAGGAGAGATGAANTGGCTTGAGGAAAAGATGAAGAAGCTCTCCCTCTCTACTTTTCTA CCTTCCTTTCTACTCCGATACCCTCTGTCTACTTTACCGAACTCCTTTCTACTTCTCGA  
M E E K M K K L E E K M E E K M K W L E E K M K K L

EARI      BSPHI      ASP718      ECORI  
 CCAAGAGAGMAGATGAAGGTCATGATGIGNTAGGTACCG  
 GCTTCCTCTTCTACTTCCAGTACTTCACATATCCATGGCTTA      CLONE      pSK34

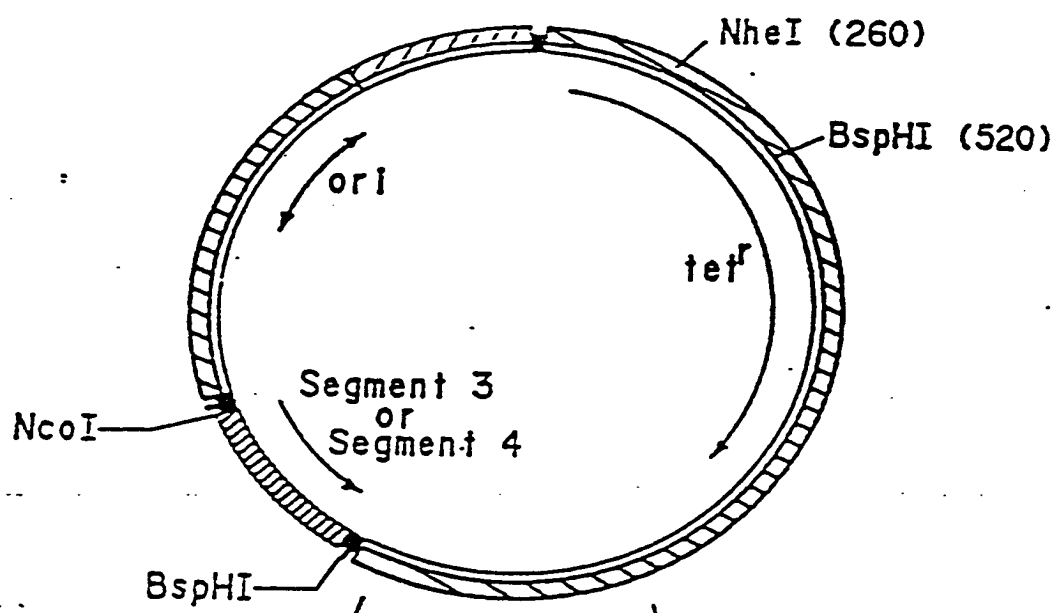
E E K M K V M K



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FIG. 14A

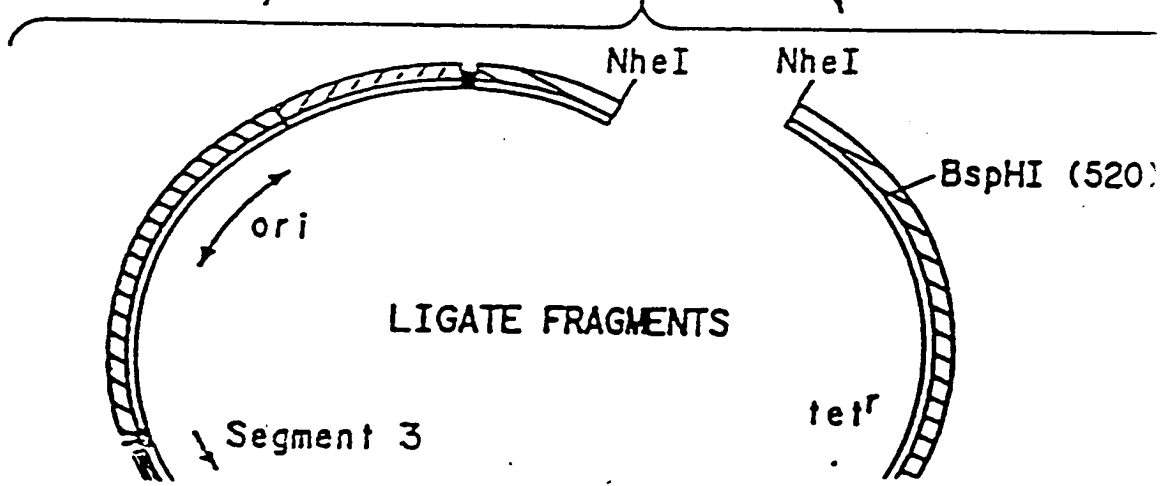
FIG. ~~14A~~ 13A



Segment 3 Digest NheI/BspHI      Segment 4 Digest NheI/NcoI

FIG. 14B

FIG. ~~14B~~ 13B

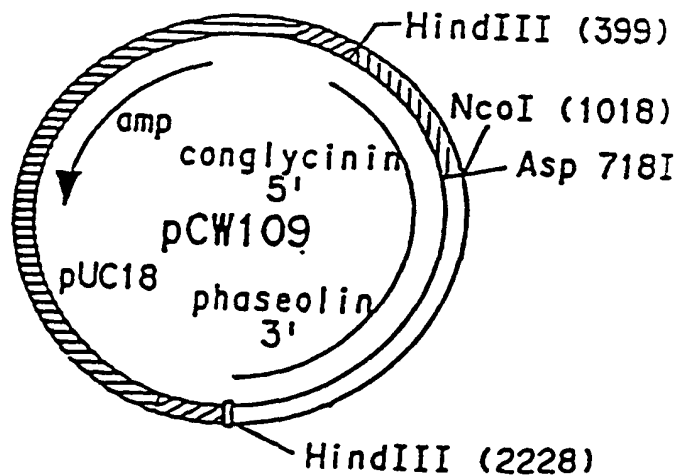
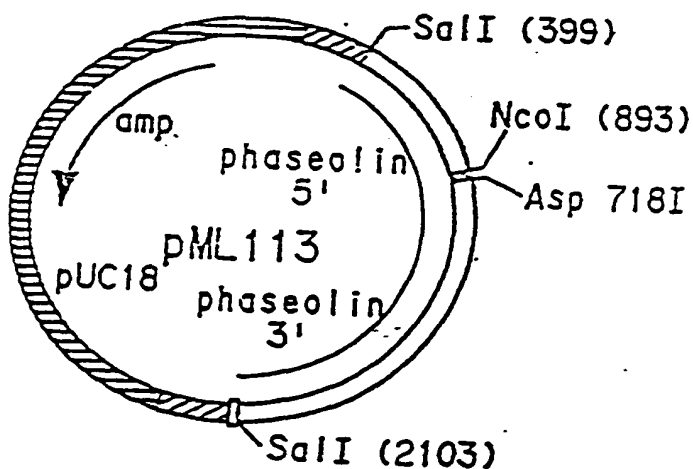
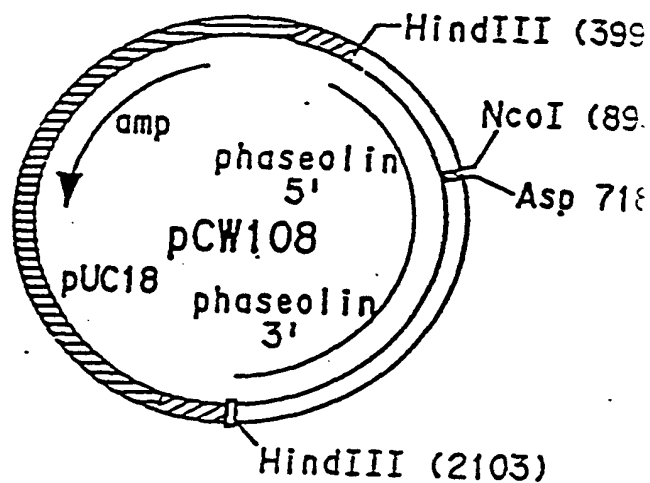


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FIG 15

~~FIG. 12/14~~



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10023056.121701

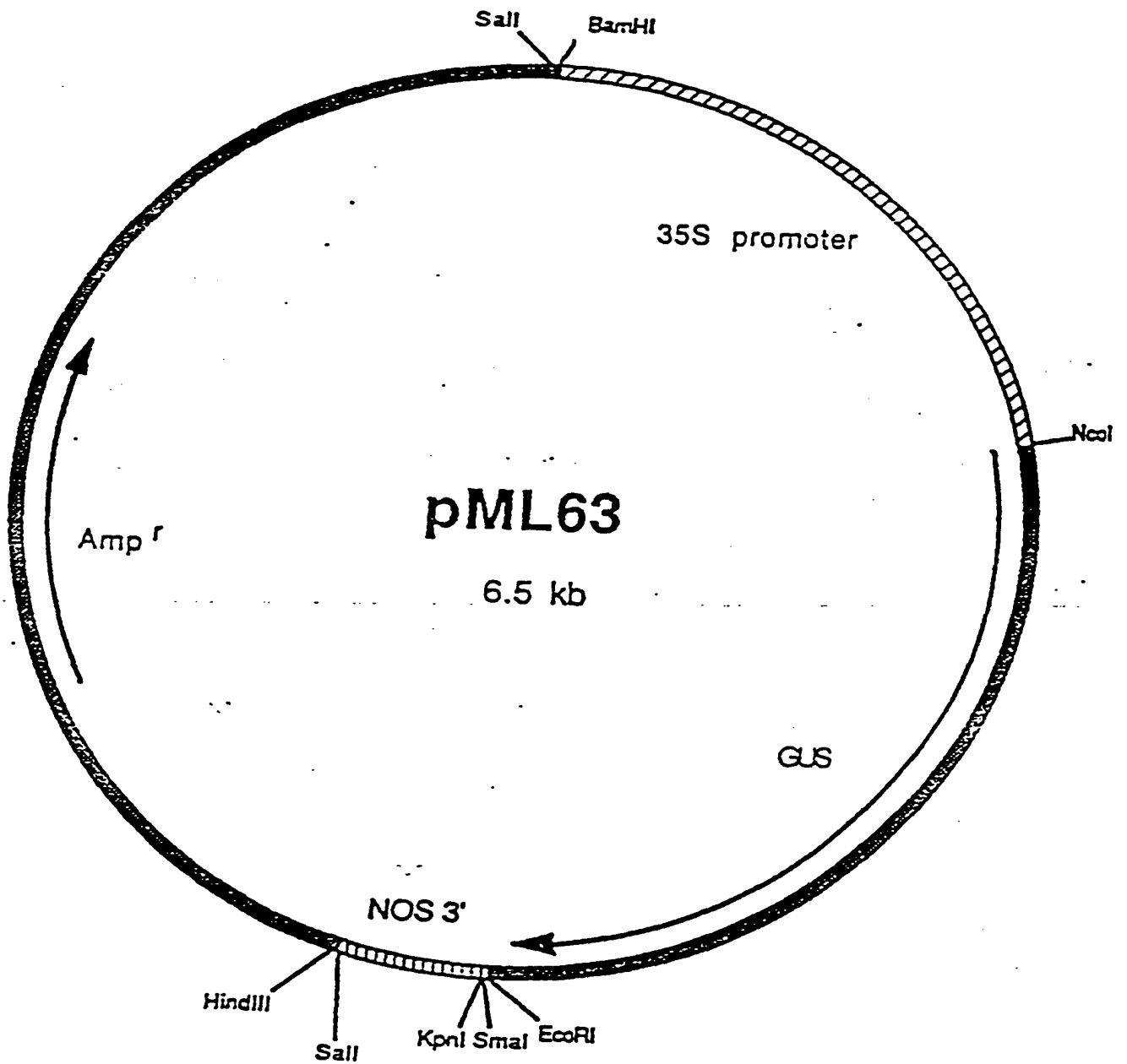


FIG. ~~14~~ 15 . FIG. 16

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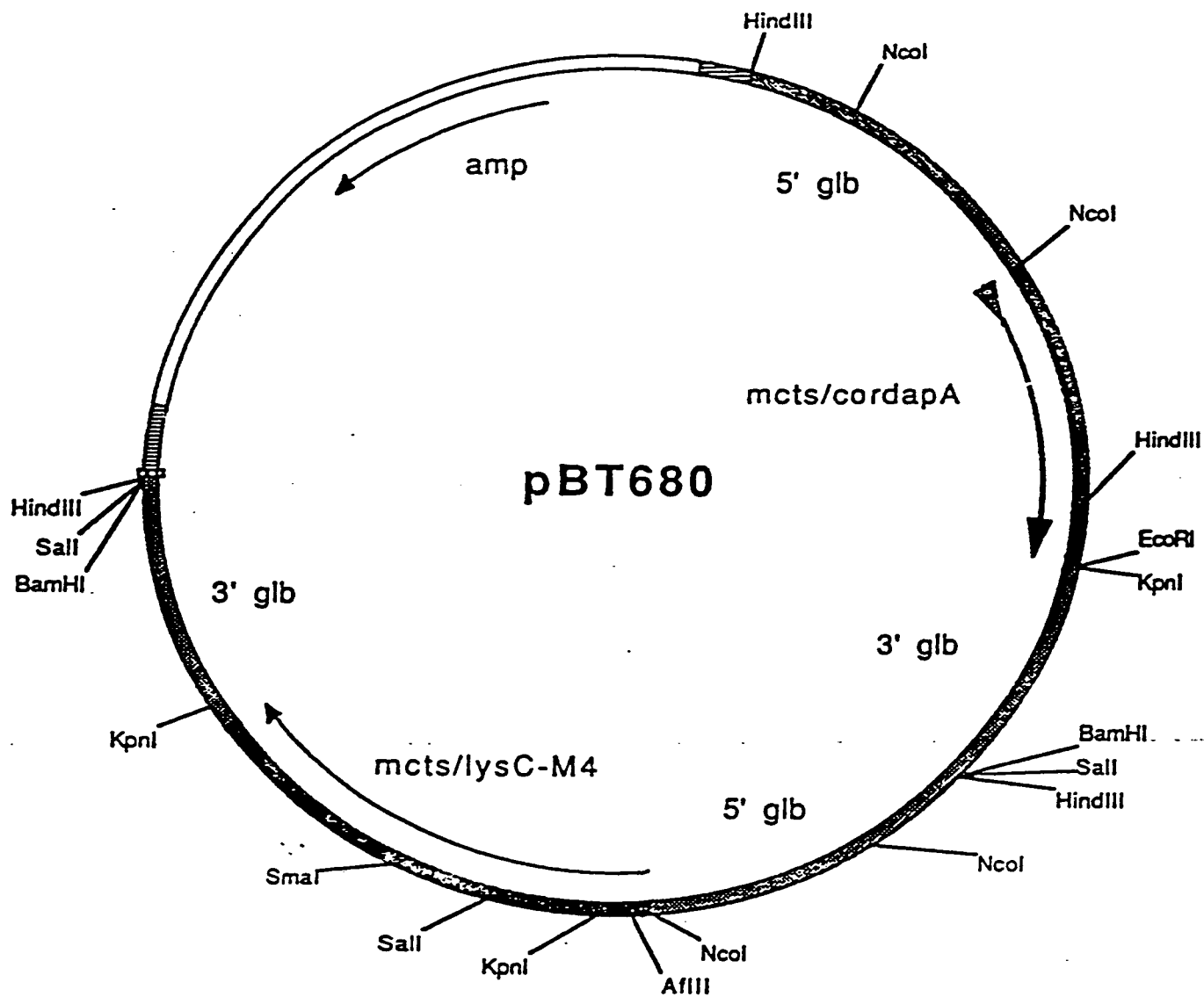


FIG. 17

FIG. 16

10023066.121701

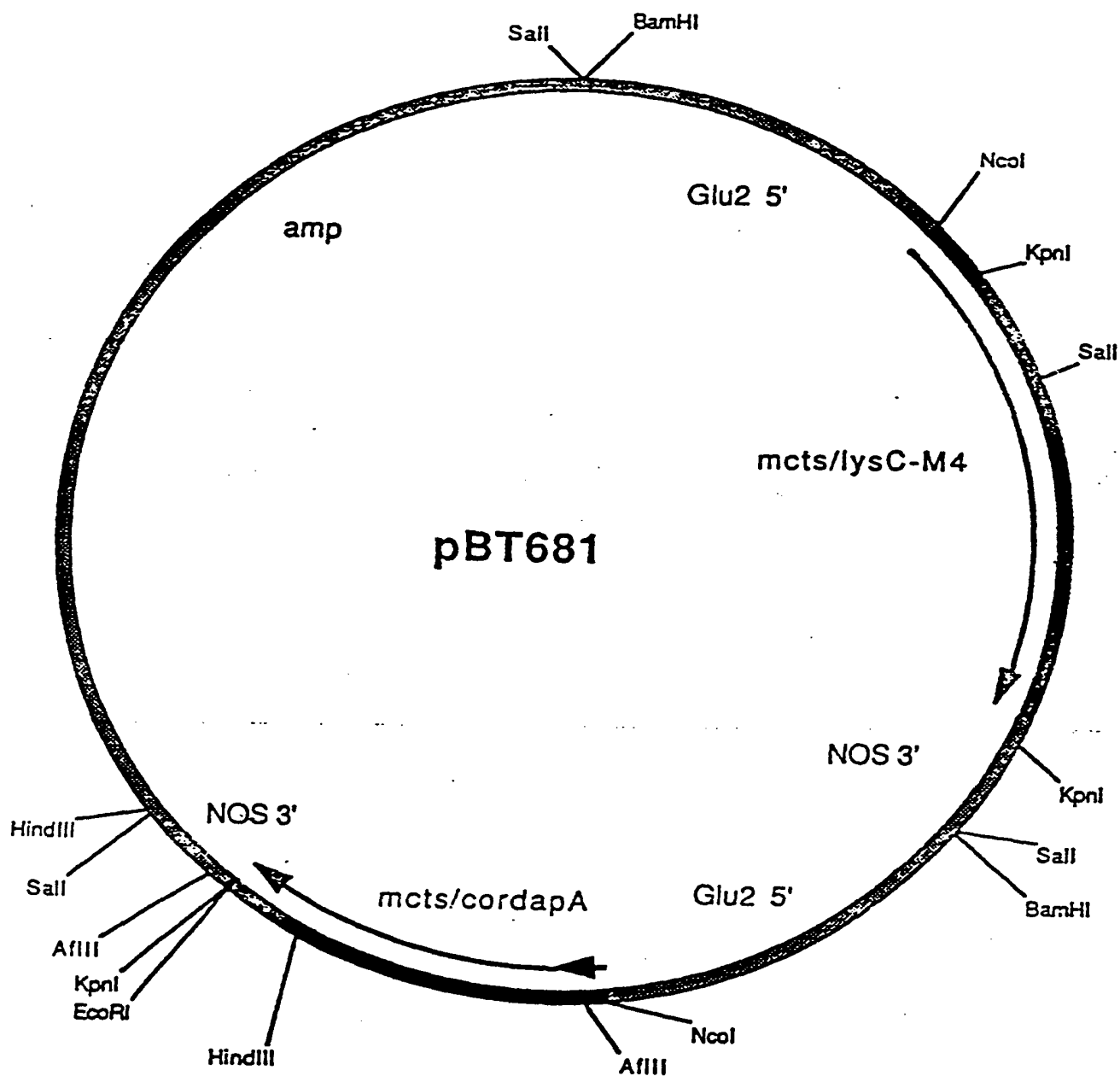


FIG. 18

10023065.121701

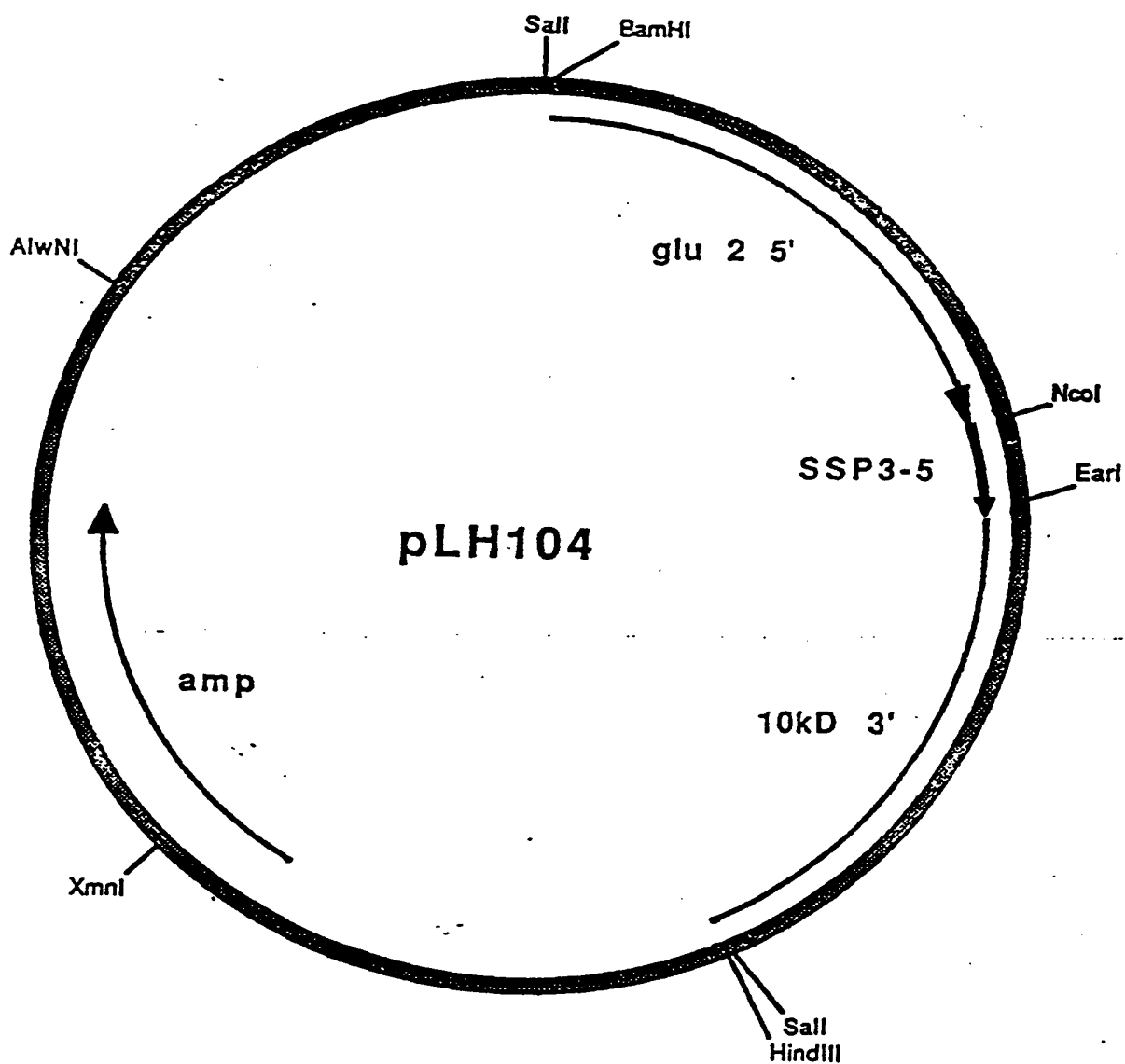
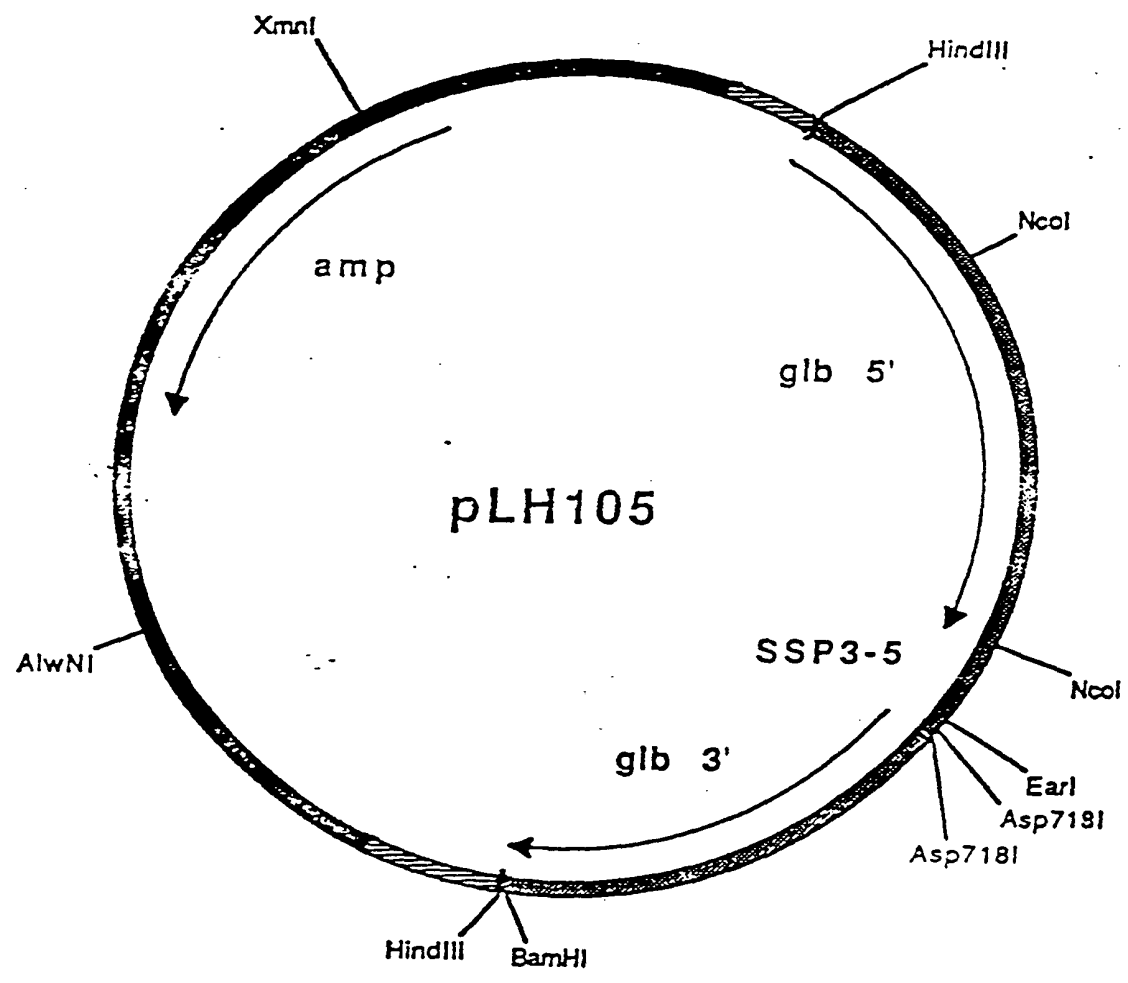


FIG. 18

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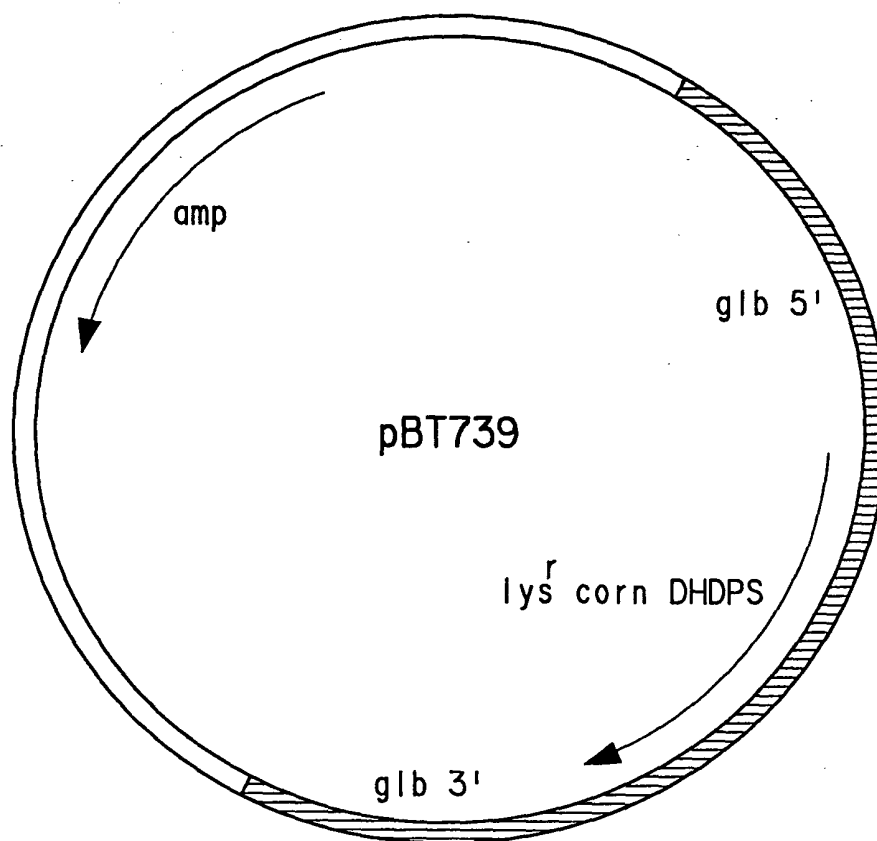


FIG. 21

10023056-12101



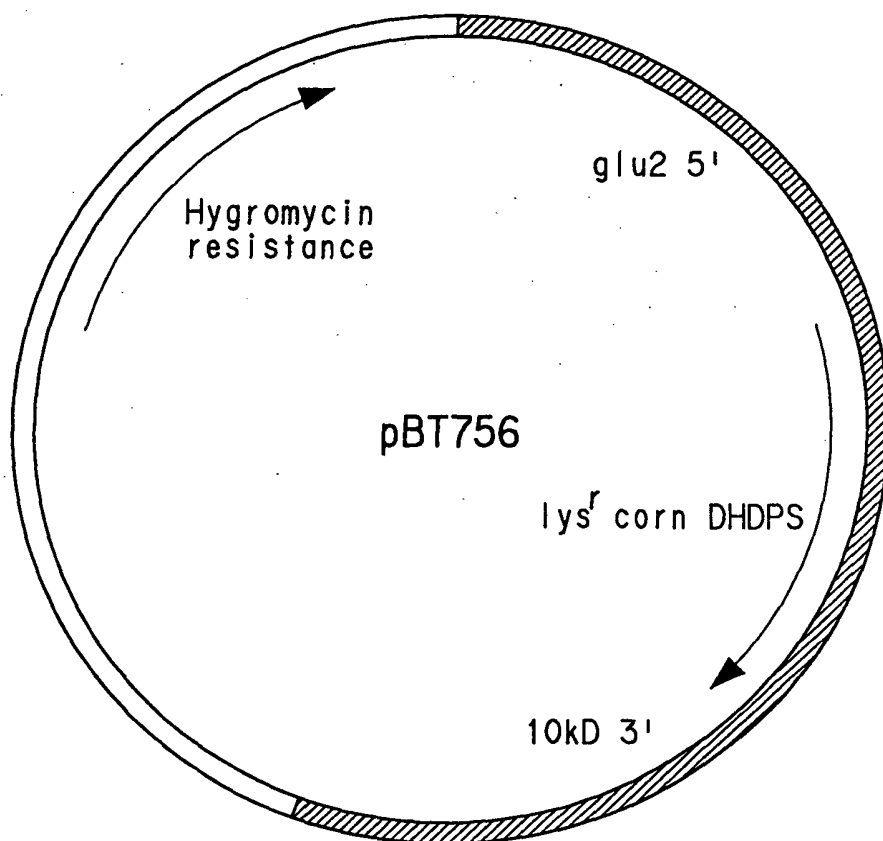


FIG.22

10023065.121701